

# PROFESSIONAL SERVICES PROCUREMENT BULLETIN

## 2011-02 BOONE/I-71/75

<b>COUNTY</b>	Boone
<b>ROUTE</b>	I-71/75
<b>ITEM NO</b>	6-14.00
<b>PROJECT DESCRIPTION</b>	Reconstruct the KY 536 Interchange to a Double Crossover Diamond type interchange, per the Interchange Justification Study. Anticipated project limits on KY 536 are from Tiburon (west) to Berberich (east).
<b>PROJECT MANAGER</b>	Carol Callan-Ramler, P.E.
<b>USER DIVISION</b>	Design
<b>APPROXIMATE FEE</b>	\$1,000,000 Lump Sum Fee Contract
<b>PROJECT FUNDING</b>	Federal Funds (Interstate Maintenance)
<b>PROJECT LENGTH</b>	0.1 mile (Approach roads and ramps-approx 4 miles)
<b>PURPOSE AND NEED</b>	Increase safety and reduce traffic delays experienced at and within the immediate vicinity of the I-71/75-KY 536 interchange. Constructed in 1994, the KY 536 interchange has experienced tremendous growth. Comparing 2006 ADT with 1994, I-71/75 has increased by a factor of 1.32 to over 104,000 ADT and KY 536 has increased by a factor of 3.41 to nearly 19,000 ADT.
<b>DBE REQUIREMENT</b>	The Consultant team shall include a DBE Participation Plan with their response to announcement. An additional page will be allowed with the project approach in the response to announcement to convey this plan. A maximum of 4 points will be considered in the evaluation factors for the DBE Participation Plan.
<b>METHOD OF DESIGN</b>	The Selected Consultant shall utilize the current CADD Standards for Highway Plans policy in the development of the Highway Plans.

## SCOPE OF WORK

The selected consultant is required to provide Engineering and Environmental Services to perform Phase I Preliminary Engineering & Environmental and Phase II Final Roadway Design. Phase I design to include typical sections, line and grades, drainage, and cost estimate. Phase II design includes, at a minimum, preparation of any design studies, drainage design, right-of-way plans, construction plans, traffic control plans, striping plans, signal plans, signing plans, lighting plans, cost estimates and structural design.

## SPECIAL INSTRUCTIONS

The Department may retain any of the advertised services to be performed by in-house state forces.

The purpose of the design contract is to provide Phase I Preliminary Engineering and Environmental Services and Phase II Final Roadway Design. The initial contract agreement will be for Phase I Preliminary Engineering and Environmental Services only. Phase II Final Roadway Design may be added by contract modification. Phase II units may be negotiated at the end of Phase I after an approved Preliminary Line and Grade. Structure Design Services may be added to the Contract Agreement by contract modification.

Additional Phase I design work includes the following preliminary plans and cost estimates: striping, signing, signal, lighting, potential waste areas, potential structures locations, and utilities relocation; traffic modeling; coordination with forthcoming project 6-14.50; and support to a project website to be developed by KYTC.

**Instructions for Response to Announcement can be found at:**

[http://transportation.ky.gov/progperform/instructions\\_for\\_response\\_to\\_kentucky\\_transportation\\_cabinet\\_6-9-06.pdf](http://transportation.ky.gov/progperform/instructions_for_response_to_kentucky_transportation_cabinet_6-9-06.pdf)

The Consultant's Response to Announcement section on Project Approach may be up to five pages.

<b>AVAILABLE STUDIES</b>	<ol style="list-style-type: none"><li>1. <a href="#">Interchange Justification Study: 6-14.01 (KY 536 &amp; KY 338)</a></li><li>2. <a href="#">Northern KY Area Planning Commission: South Banklick Development</a></li><li>3. <a href="#">Boone County Transportation Plan 2030</a></li></ol>
<b>PHOTOGRAMMETRIC SERVICES</b>	The Department will provide the aerial mapping. Data to be available August/September 2010.
<b>GEOTECHNICAL SERVICES</b>	The Department will provide all Geotechnical Services required for the project.

<p><b>STRUCTURE DESIGN</b></p>	<p>The Selected Consultant shall do the necessary engineering service to submit to the KYTC an Advanced Situation Folder(s) for the appropriate applicable structure(s).</p> <p>The Structure Design will be performed by the Consultant. Prequalification in the area of Structure Design is required to be identified in the Consultant's Response To Announcement.</p>
<p><b>ENVIRONMENTAL</b></p>	<p>The Selected Consultant will be responsible for the preparation of the appropriate Environmental Studies, CE III document anticipated.</p>
<p><b>UTILITIES</b></p>	<p>The Selected Consultant will be responsible for determining the existing locations of utilities to determine feasibility of redesign or utility relocation, and cost estimates.</p>
<p><b>PLANNING</b></p>	<p>The Selected Consultant will be required to provide a Traffic Model.</p> <p>The Selected Consultant will be responsible for all aspects of traffic movements, lane drops, pedestrian and bicycle interaction, etc.</p> <p>Traffic projections and related information will be provided by the Department.</p>
<p><b>TRAFFIC</b></p>	<p>The Selected Consultant will be responsible for a preliminary layout plan in Phase I Engineering for Roadway Lighting so that the physical three dimensional aspects of light poles can be considered by the design team to evaluate (1) sight distance concerns throughout the Double Crossover Diamond type interchange footprint and (2) to strategically locate lighting to assure appropriate lighting for all users and roadway signs.</p> <p>The Selected Consultant will be responsible for a preliminary layout in Phase I Engineering for Signals so that the physical three dimensional aspects of signal locations can be considered by the design team to evaluate (1) sight distance concerns throughout the Double Crossover Diamond type interchange footprint and (2) to strategically locate signals (traffic &amp; pedestrian) to supplement setting striping for the Double Crossover Diamond type interchange.</p>

## PREQUALIFICATION REQUIREMENTS

To respond to this project, the project team **must be** prequalified in the following areas by the date of this advertisement.

<u>ROADWAY DESIGN</u>	<ul style="list-style-type: none"> <li>• Urban Roadway Design</li> <li>• Surveying</li> </ul>
<u>STRUCTURE DESIGN</u>	<ul style="list-style-type: none"> <li>• Spans under 500 feet</li> </ul>
<u>TRANSPORTATION PLANNING</u>	<ul style="list-style-type: none"> <li>• Traffic Demand Modeling</li> </ul>
<u>PEDESTRIAN AND BICYCLE FACILITY PLANNING AND DESIGN / BIKEWAY PLANNING</u>	<ul style="list-style-type: none"> <li>• Pedestrian and Bicycle Facility Planning and Design (Bikeway Planning)</li> </ul>
<u>TRAFFIC ENGINEERING</u>	<ul style="list-style-type: none"> <li>• Electrical Engineering Roadway Lighting Services</li> <li>• Electrical Engineering Traffic Signal Services</li> </ul>
<u>ENVIRONMENTAL AQUATIC &amp; TERRESTRIAL ECOSYSTEMS ANALYSIS</u>	<ul style="list-style-type: none"> <li>• Macroinvertebrates</li> <li>• Water Quality</li> <li>• Botany</li> <li>• Zoology</li> <li>• Wetlands</li> </ul>
<u>ENVIRONMENTAL ARCHAEOLOGY AND OTHER SERVICES</u>	<ul style="list-style-type: none"> <li>• Prehistoric</li> <li>• Historic</li> <li>• Highway Noise</li> <li>• Air Quality Analysis</li> <li>• Cultural-Historic Analysis</li> <li>• EIS Writing and Coordination</li> </ul>
<u>ENVIRONMENTAL AND UST SERVICES</u>	<ul style="list-style-type: none"> <li>• Hazmat Preliminary Site Assessment (Phase I)</li> <li>• UST Preliminary Site Assessment</li> </ul>

## PROCUREMENT SCHEDULE

RESPONSE DATE	Thursday, September 9, 2010 4:30 p.m. E.S.T. (Frankfort time)
SELECTION COMMITTEE DATE	October 1, 2010
PRE-DESIGN CONFERENCE	October 8, 2010
TENTATIVE DEADLINE FOR CONSULTANT FEE PROPOSAL	October 21, 2010
CONTRACT NEGOTIATIONS	November 15, 2010
NOTICE TO PROCEED	December 15, 2010

## PROJECT SCHEDULE

PL&G MEETING	December 1, 2011
PL&G & DES COMPLETE	December 15, 2011
DRAFT CE III	April 15, 2012
RIGHT-OF-WAY PROGRAMMED	February 2013 (FY 2012)
UTILITIES PROGRAMMED	February 2013 (FY 2012)
CONSTRUCTION LETTING	May 2014 (FY 2014)

## EVALUATION FACTORS

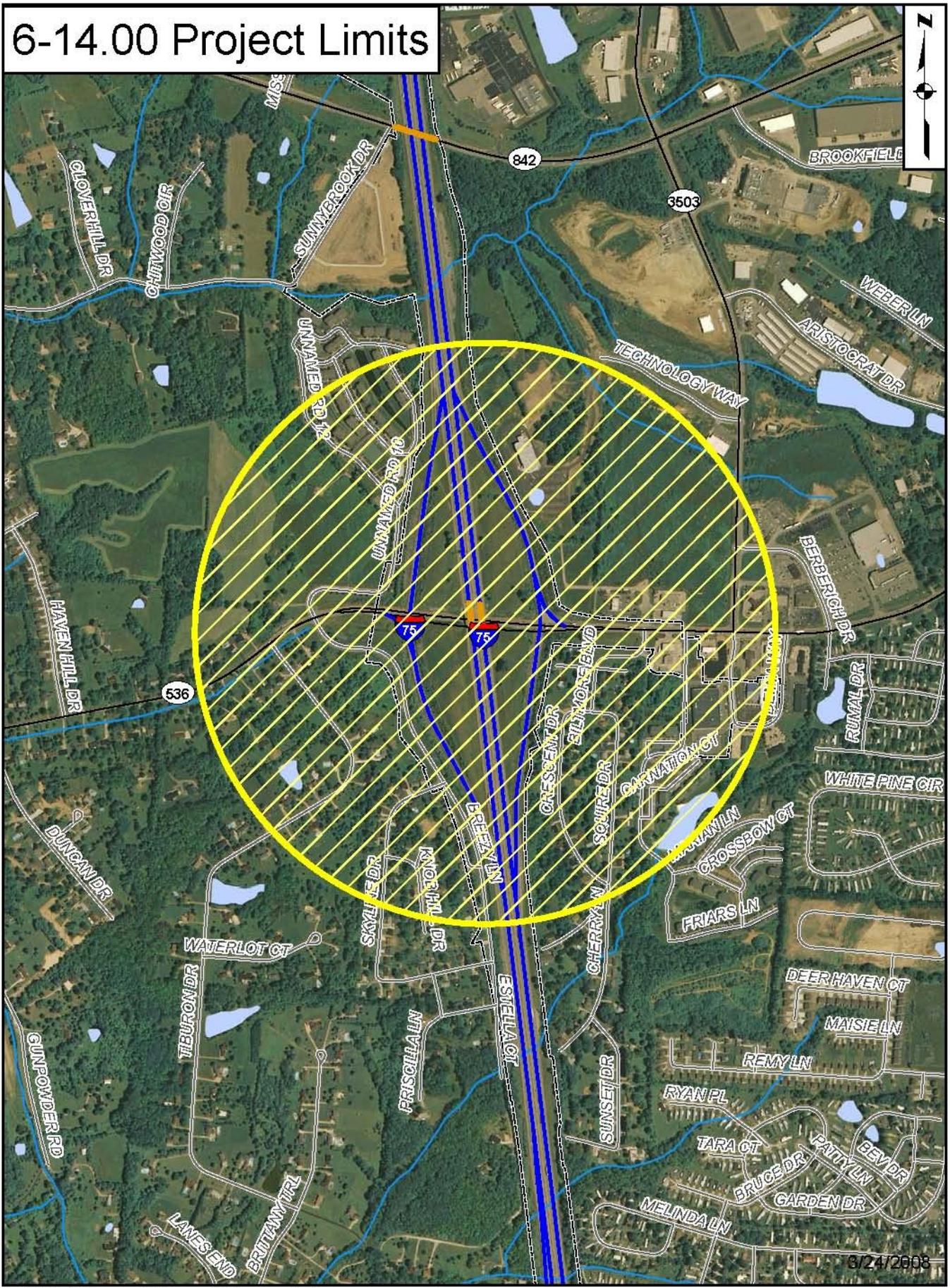
1. Relative experience of Consultant personnel assigned to project team with highway projects for KYTC and/or for federal, local, or other state governmental agencies. (15 points)
2. Capacity to comply with project schedule. (15 points)
3. Past record of performance on project of similar type and complexity. (15 points)
4. Project approach and proposed procedures to accomplish the services for the project. (15 points)
5. DBE Participation Plan (4 points)
6. Consultant's offices where work is to be performed. (2 points)

For state-funded projects, if a Selection Committee vote results in a tie between two (2) firms, one (1) of which will perform more of the work tasks in Kentucky than the other, then the former firm shall be ranked one (1) place ahead of the latter.

## SELECTION COMMITTEE MEMBERS

1. John Eckler, PE, User Division
2. Jim Simpson, PE, User Division
3. Steve Farmer, PE, Secretary's Pool
4. Deanna Miller, PE, Secretary's Pool
5. Jim Lile, PE, Governor's Pool

# 6-14.00 Project Limits



0 0.05 0.1 0.2 0.3 0.4 Miles

8/24/2008